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1 [Jasmine: a software system modelling facility](#)



Keith Marzullo, Douglas Wiebe

January 1987

ACM SIGPLAN Notices , Proceedings of the second ACM SIGSOFT/SIGPLAN Practical software development environments SDE 2, Volume 22 Issue 1

Publisher: ACM Press

Full text available: [pdf\(949.90 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [c](#)

Jasmine is a programming-in-the-large system designed by the authors at Xerox Information S workstation tools and network services that help programmers develop, release, and maintain I primary parts: (1) system models that describe the structure and versions of software, (2) cont components (suppo ...

2 [1 - Regular Articles: Geometric containers for efficient shortest-path computation](#)



Dorothea Wagner, Thomas Willhalm, Christos Zaroliagis

December 2005 **Journal of Experimental Algorithmics (JEA)**, Volume 10 Issue es

Publisher: ACM Press

Full text available: [pdf\(716.16 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [ir](#)

A fundamental approach in finding efficiently best routes or optimal itineraries in traffic informa (part of graph visited) of the most commonly used shortest path routine (Dijkstra's algorithm) (reduction of the search space while simultaneously retaining data structures, created during a p optimal) to the size of the graph. We show that the search space of Dijkstra's al ...

Keywords: Data structures and algorithms, Dijkstra's algorithm, geometric container, graph al

3 [Indexing in an object-oriented DBMS](#)

David Maier, Jacob Stein

September 1986 **Proceedings on the 1986 international workshop on Object-oriented data**

Publisher: IEEE Computer Society Press



Full text available: [pdf\(1.14 MB\)](#)



Additional Information: [full citation](#), [abstract](#), [references](#), [c](#)



We describe indexing in the GemStone object-oriented database server, which supports a mode begin with a brief description of the system's architecture and the role of indexing in GemStone oriented systems, and GemStone in particular, that make indexing considerably different than i approaches to indexing in an object-oriented model are presented. We describe bo ...



4 [A lightweight architecture for program execution monitoring](#)



Clinton Jeffery, Wenyi Zhou, Kevin Templer, Michael Brazell


-  July 1998 **ACM SIGPLAN Notices , Proceedings of the 1998 ACM SIGPLAN-SIGSOFT v software tools and engineering PASTE '98**, Volume 33 Issue 7
Publisher: ACM Press
Full text available:  [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [ir](#)
The Alamo monitor architecture reduces the difficulty of writing dynamic analysis tools such as visualizations.

- 5 [Nomenclator descriptive query optimization for large X.500 environments](#)
 Joann J. Ordille, Barton P. Miller
August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the con protocols SIGCOMM '91**, Volume 21 Issue 4
Publisher: ACM Press
Full text available:  [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [ind](#)

- 6 [Web search and navigation: Relational Markov models and their application to adaptive w](#)
 Corin R. Anderson, Pedro Domingos, Daniel S. Weld
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowl**
Publisher: ACM Press
Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [c](#)
Relational Markov models (RMMs) are a generalization of Markov models where states can be o different set of variables. The domain of each variable can be hierarchically structured, and shri these hierarchies. RMMs make effective learning possible in domains with very large and hetero We apply them to modeling the behavior of web site users, improving predict ...
Keywords: Markov models, Web mining, personalization, relational probabilistic models, shrink

- 7 [Energy-aware design of embedded memories: A survey of technologies, architectures, and](#)
 Luca Benini, Alberto Macii, Massimo Poncino
February 2003 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 2 Issue 1
Publisher: ACM Press
Full text available:  [pdf\(288.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [ir](#)
Embedded systems are often designed under stringent energy consumption budgets, to limit he systems consume a significant amount of energy to store and to forward data, it is then impera performance in memory system design. Contemporary system design focuses on the trade-off l in processing and storage units, as well as in their interconnections. Although memory design is
Keywords: Embedded systems, embedded memories, integration, memories, nonvolatile, syst

- 8 [Theory of answering queries using views](#)
 Alon Y. Halevy
December 2000 **ACM SIGMOD Record**, Volume 29 Issue 4
Publisher: ACM Press
Full text available:  [pdf\(863.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index](#)
The problem of answering queries using views is to find efficient methods of answering a query over the database, rather than accessing the database relations. The problem has recently rece relevance to a wide variety of data management problems, such as query optimization, the mai integration and data warehousing. This article surveys the theoretical issues concernin ...

- 9 [An algebraic approach to practical and scalable overlay network monitoring](#)
 Yan Chen, David Bindel, Hanhee Song, Randy H. Katz
August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 200 technologies, architectures, and protocols for computer communications S**

Publisher: ACM PressFull text available:  [pdf\(461.14 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [c](#)


Overlay network monitoring enables distributed Internet applications to detect and recover from performance within seconds. For an overlay network with n end hosts, existing systems either r scalability, or can only estimate the latency but not congestion or failures. Our earlier extended approach that selectively monitors k linearly indep ...

Keywords: dynamics, load balancing, network measurement and monitoring, numerical linear

10 Vclusters: a flexible, fine-grained object clustering mechanism



Mark L. Mcauliffe, Michael J. Carey, Marvin H. Solomon

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10**Publisher:** ACM PressFull text available:  [pdf\(2.07 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

We consider the problem of delivering an effective fine-grained clustering tool to implementors systems. This work emphasizes on-line clustering *mechanisms*, as contrasted with earlier work (deciding which objects should be near each other). Existing on-line clustering methods can be to poor space utilization on disk and in the disk block cache, particularl ...

11 Query optimization by using derivability in a data warehouse environment




J. Albrecht, W. Hümmer, W. Lehner, L. Schlesinger

November 2000 **Proceedings of the 3rd ACM international workshop on Data warehousing****Publisher:** ACM PressFull text available:  [pdf\(182.97 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [ind](#)

12 Fine-grain multithreading with minimal compiler support—a cost effective approach to impl languages



Kenjiro Taura, Akinori Yonezawa


May 1997 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1997 conference implementation PLDI '97**, Volume 32 Issue 5**Publisher:** ACM PressFull text available:  [pdf\(2.03 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [c](#)

It is difficult to map the execution model of multithreading languages (languages which support single stack execution model of C. Consequently, previous work on efficient multithreading uses strategy, with compilers customized for them. This paper presents an alternative cost-effective languages which can maximally exploit current sequential C compilers. We identify a s ...

13 How to be an efficient snoop, or the probe complexity of quorum systems (extended abstr






David Peleg, Avishai Wool

May 1996 **Proceedings of the fifteenth annual ACM symposium on Principles of distribut****Publisher:** ACM PressFull text available:  [pdf\(1.10 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Planar point location for large data sets: to seek or not to seek




Jan Vahrenhold, Klaus H. Hinrichs

December 2002 **Journal of Experimental Algorithmics (JEA)**, Volume 7**Publisher:** ACM PressFull text available:  [pdf\(512.18 KB\)](#)  [ps\(1.88 MB\)](#)  [tar \(2.32 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [c](#)

We present an algorithm for external memory planar point location that is both effective and ea

external memory variant of the bucket method by Edahiro, Kokubo and Asano that is combined algorithm for planar point location. Although our algorithm is not optimal in terms of its worst-c batched and single-shot queries by experiments with real-world data. The experiments ...

15 Programming by sketching for bit-streaming programs

 Armando Solar-Lezama, Rodric Rabbah, Rastislav Bodík, Kemal Ebcioglu
June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference implementation PLDI '05**, Volume 40 Issue 6

Publisher: ACM Press

Full text available:  [pdf\(320.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [ir](#)

This paper introduces the concept of *programming with sketches*, an approach for the rapid dev This approach allows a programmer to write clean and portable reference code, and then obtain *sketching* the outlines of the desired implementation. Subsequently, a compiler automatically fi that a completed sketch is faithful to the input reference code. In this p ...

Keywords: StreamIt, domain specific compiler, domain specific language, sketching, stream pi

16 New efficient algorithms for computing effective capacitance

 Andrew B. Kahng, Sudhakar Muddu
April 1998 **Proceedings of the 1998 international symposium on Physical design**

Publisher: ACM Press

Full text available:  [pdf\(711.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [c](#)

We describe a novel iterationless approach for computing the effective capacitance of an interco approach is considerably faster than previous methods for computing effective capacitance, with approach is suitable within the analysis loop for performance-driven iterative layout optimizatio and effective capacitance approximations, we separately derive our method f ...

17 Analysis and verification: Scalable, graph-based network vulnerability analysis

 Paul Ammann, Duminda Wijesekera, Saket Kaushik
November 2002 **Proceedings of the 9th ACM conference on Computer and communications**

Publisher: ACM Press

Full text available:  [pdf\(186.19 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [c](#)


Even well administered networks are vulnerable to attack. Recent work in network security has exploits are the typical means by which an attacker breaks into a network. Researchers have pr generate attack trees (or graphs). Either structure represents all possible sequences of exploits of the penetration achieved by prior exploits in its chain, and the final exploit i ...

Keywords: exploit, model checking, monotonic analysis, network security, scalability, vulnerat

18 Crumbling walls: a class of practical and efficient quorum systems

 David Peleg, Avishai Wool
August 1995 **Proceedings of the fourteenth annual ACM symposium on Principles of distrib**

Publisher: ACM Press

Full text available:  [pdf\(1.04 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Posters: A logic-based semantic web html generator - a poor man's publishing approach

 Eero Hyvönen, Arttu Valo, Kim Viljanen, Markus Holi
May 2004 **Proceedings of the 13th international World Wide Web conference on Alteri**

Publisher: ACM Press

Full text available:  [pdf\(137.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

This paper presents a method and a tool for publishing semantic web content in RDF(S) for the

Keywords: content publishing, logic, ontology, semantic web

20 Session 7: Lithography and Routing: What's Next? (invited): Research directions for coev



Andrew B. Kahng

April 2003

Proceedings of the 2003 international symposium on Physical design

Publisher: ACM Press

Full text available: [pdf\(82.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [c](#)

Design rules in advanced IC manufacturing processes are increasingly problematic for modern r
first reviews types and causes of "difficult" design rules, as well as implications for current routi
components are assessed with respect to future viability. Last, the paper discusses prospects fo
detailed routing methods.

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21 [Verification and normalization of sentences](#)



Marco Costa, José Neves, Orlando Sousa, Simas Santos

June 1999 **Proceedings of the 7th international conference on Artificial intelligence and la**

Publisher: ACM Press

Full text available: [pdf\(237.35 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

22 [Organizational engineering \(OE\): An integrated model of workflows, e-contracts and soluti](#)



Mizuho Iwaihara, Haiying Jiang, Yahiko Kambayashi

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: [pdf\(118.13 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [inc](#)

Electronic-contracts (e-contracts) are structured models of business contracts. Business transac by inter-workflows based on standards. However, exceptions, namely problematic situations wh workflow design, are not well supported in the proposed models. Such exceptions need to be re and decision-making by participants are necessary for interpreting e-contracts and agreeing on

Keywords: business process, e-contract, workflows

23 [IR-4 \(information retrieval\): machine learning in information retrieval: Regularizing translati](#)



[annotation](#)

Feng Kang, Rong Jin, Joyce Y. Chai

November 2004 **Proceedings of the thirteenth ACM international conference on Information '04**

Publisher: ACM Press

Full text available: [pdf\(250.23 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [inc](#)

The goal of automatic image annotation is to automatically generate annotations for images to statistical machine translation models have been successfully applied to automatic image annot annotating images as a process of translating the content from a 'visual language' to textual wc translation models is that common words are usually associated with too many different image

Keywords: automatic image annotation, normalized translation model, regularized translation

24 [Using testing and JUnit across the curriculum](#)



Michael Wick, Daniel Stevenson, Paul Wagner

February 2005 **ACM SIGCSE Bulletin , Proceedings of the 36th SIGCSE technical symposiu**

SIGCSE '05, Volume 37 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(219.93 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [inc](#)

While the usage of unit-testing frameworks such as JUnit has greatly increased over the last se
to students and instructors how to best use tools like JUnit and how to integrate testing across
worked over the last four semesters to infuse testing and JUnit across our curriculum, building i
them write their own test cases to building larger integration and use case testing syst ...

Keywords: JUnit, testing, unit testing, unit testing frameworks


25 Fast compilation for pipelined reconfigurable fabrics



Mihai Budiu, Seth Copen Goldstein

February 1999 **Proceedings of the 1999 ACM/SIGDA seventh international symposium on I**

Publisher: ACM Press

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